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A. I. A. File No. 31 f 24



1932

G-E NOVALUX

ORNAMENTAL FLOODLIGHTING

LUMINAIRES

GENERAL  ELECTRIC

A. I. A. File No. 31 f 24

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CCA

G-E NOVALUX

ORNAMENTAL FLOODLIGHTING

LUMINAIRES



The G-E Novalux floodlighting luminaires described in this bulletin represent but a part of the G-E Novalux line.

For information about other types of G-E Novalux projectors, refer to the following publications:

- | | |
|----------|---|
| GEA-161H | G-E Novalux Enclosed Floodlighting Projectors |
| GEA-1349 | G-E Novalux Open-type Floodlights |
| GEC-95A | G-E Novalux Handy Floodlights |

GENERAL ELECTRIC COMPANY
SCHENECTADY, N. Y.



Typical combinations of luminaires and poles

- | | | | | |
|----------------------------|---------------------------|----------------------------|-------------------|---------------------------|
| Form 38 lantern | Form 8 with No. 127 globe | Form 33 with No. 127 globe | Form 18-A lantern | Form 8 with No. 123 globe |
| Form 16 with No. 118 globe | Form 18-B lantern | Form 12 with No. 124 globe | | |

G-E Novalux Ornamental Floodlighting Luminaire

A combination floodlighting and street-lighting ornamental Novalux luminaire has recently been developed by the General Electric Company to meet the growing need for an efficient light projector which would be in ornamental harmony with its surroundings. This unit combines the high efficiency of a floodlighting projector with the qualities of general illumination and artistic design characteristic of the ornamental street-lighting unit.

Through an even newer development, universal directional adjustment of the projected beam is made available, so that the versatility of this luminaire compares favorably with that of the more utilitarian type of floodlighting projector, while the graceful appearance of the Novalux ornamental street-lighting luminaire has been preserved in every respect.

On account of its construction, this unit is suitable for use either as a part of a street-lighting installation or as an independent luminaire.

APPLICATION

1. Where it is desired to have a beam of projected light together with some distributed light—that is, floodlighting with a certain amount of general illumination. This application is particularly appropriate for the lighting of office buildings, hotels, banks, stores, theaters, power stations, monuments, public buildings, swimming pools, real-estate developments, gasoline filling stations, etc.

2. Where space for mounting floodlighting projectors is not available on adjacent or opposite buildings.

3. Where the mounting of projectors on cross arms is not desirable because of the appearance during the day.

ADVANTAGES

Floodlighting and general lighting obtained from same unit. This gives a high-efficiency floodlighting beam (adjustable in any direction) and a well-diffused general light in the vicinity of the ornamental standard.

Obviates the necessity of placing floodlights on nearby buildings. The practice of placing floodlights on nearby buildings, which has been necessary many times in the past, has often led to embarrassing complications. The question of placing floodlights owned by one person on buildings owned by another brings up the question of wiring, the payment of bills for current, ownership, etc.

Ornamental appearance. During the day this unit is decorative, as it is completely contained in an ornamental fixture. At night, its appearance is most pleasing because the ornamental globe is filled with light. Dark shadows are eliminated by painting the back of the reflector and all other internal parts with a pure-white heat-resisting paint, especially developed in the Research Labora-

tory of the General Electric Company. In the larger fixtures, an auxiliary lamp is placed in the globe.

Conveniently installed. This luminaire can be installed either on brackets on a building or on ornamental poles, without marring the beauty of the buildings or its surroundings.

Harmonizes with existing ornamental street-lighting equipment. Many different styles are available, each conforming to the artistic design of a standard street-lighting luminaire.

Redirects a large percentage of light flux. Through the use of a scientifically designed parabolic reflector, a large percentage of the light flux is redirected in one floodlighting beam.

Universal adaptation. Because the floodlighting beam can be adjusted for any direction, the luminaire is suitable for numerous purposes, such as the lighting of filling stations, public buildings, statues, and playgrounds.

High reflecting efficiency. The copper-backed, silvered-glass reflector used in this unit is the best commercial reflecting medium known.

Choice of control. Can be controlled from street-lighting circuit with an insulating transformer, or directly from an ordinary multiple circuit.

DESCRIPTION AND OPERATION

This luminaire consists of ornamental high-efficiency glassware on an ornamental casing. Inside of the luminaire there is a copper-backed silvered-glass reflector and a mogul socket, each clamped to a vertical rod and capable of continuous adjustment in a vertical plane. This permits the upward and downward adjustment of the floodlighting beam and also allows the use of different sizes of lamps.

The vertical rod is clamped at the bottom in such a way that it is readily adjustable in a horizontal plane. This combination of horizontal and vertical motion permits universal direction of the reflected light.

In all types of this luminaire, a medium screw-base socket for the auxiliary lamp is supported in such a position that the lamp will illuminate the back of the white-coated reflector.

There are two general types of luminaires—large-globe and lantern—differing slightly in certain details of construction.

LARGE-GLOBE TYPE

In this type of luminaire, there is an improved method of holding the globe. It is held in place by means of screws impinging against a steel protecting ring, thus distributing the pressure equally around the globe.

The canopy is supported by an extension to the vertical rod which holds the reflector and mogul socket, so that it cannot fall should the globe become broken.

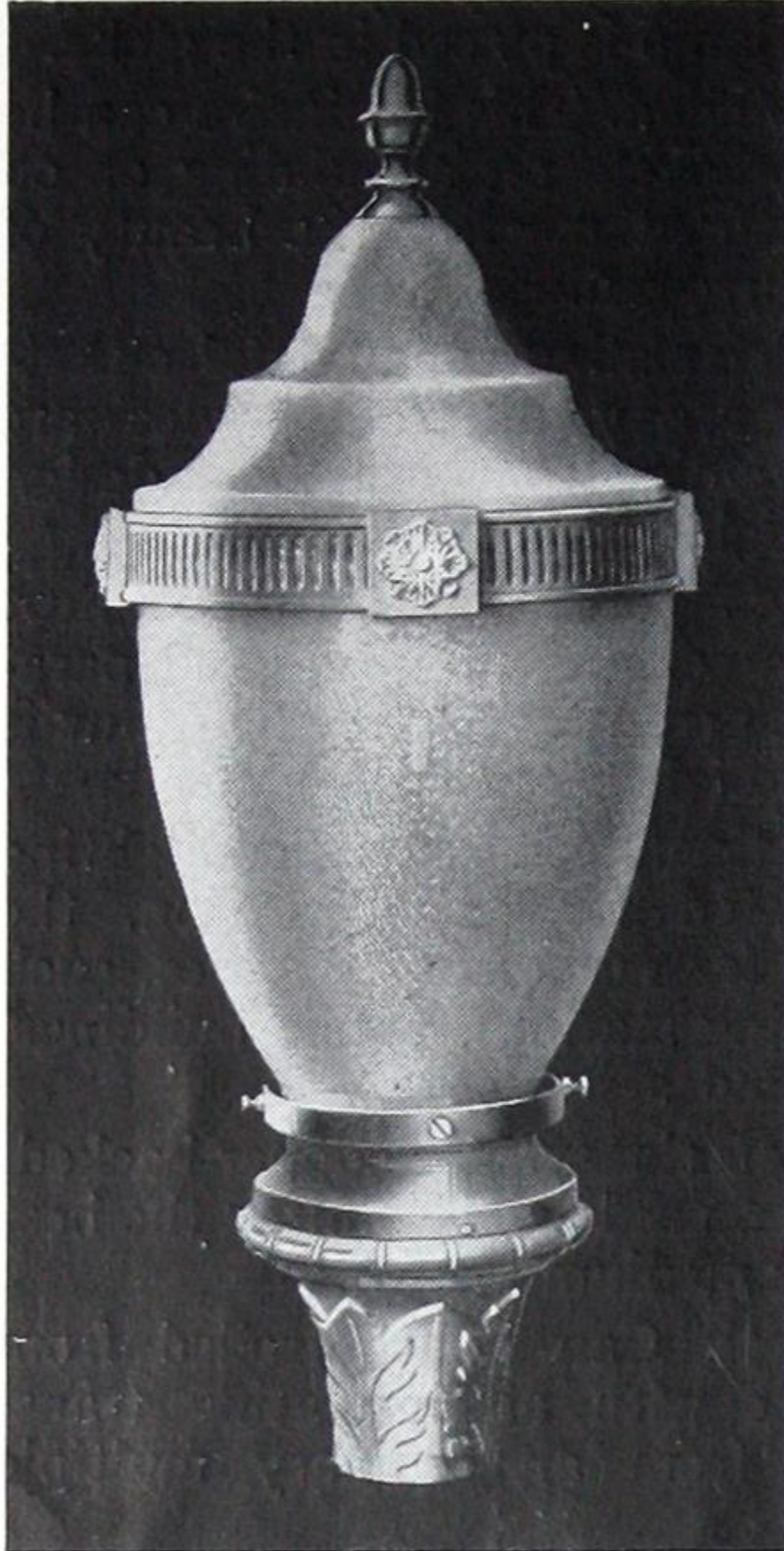


Fig. 1
(Photo No. 272854)
Form 12 with No. 124 globe,
No. 1124 canopy, and Type
M casing



Fig. 2
(Photo No. 421563)
Form 18 lantern with
Type RK casing

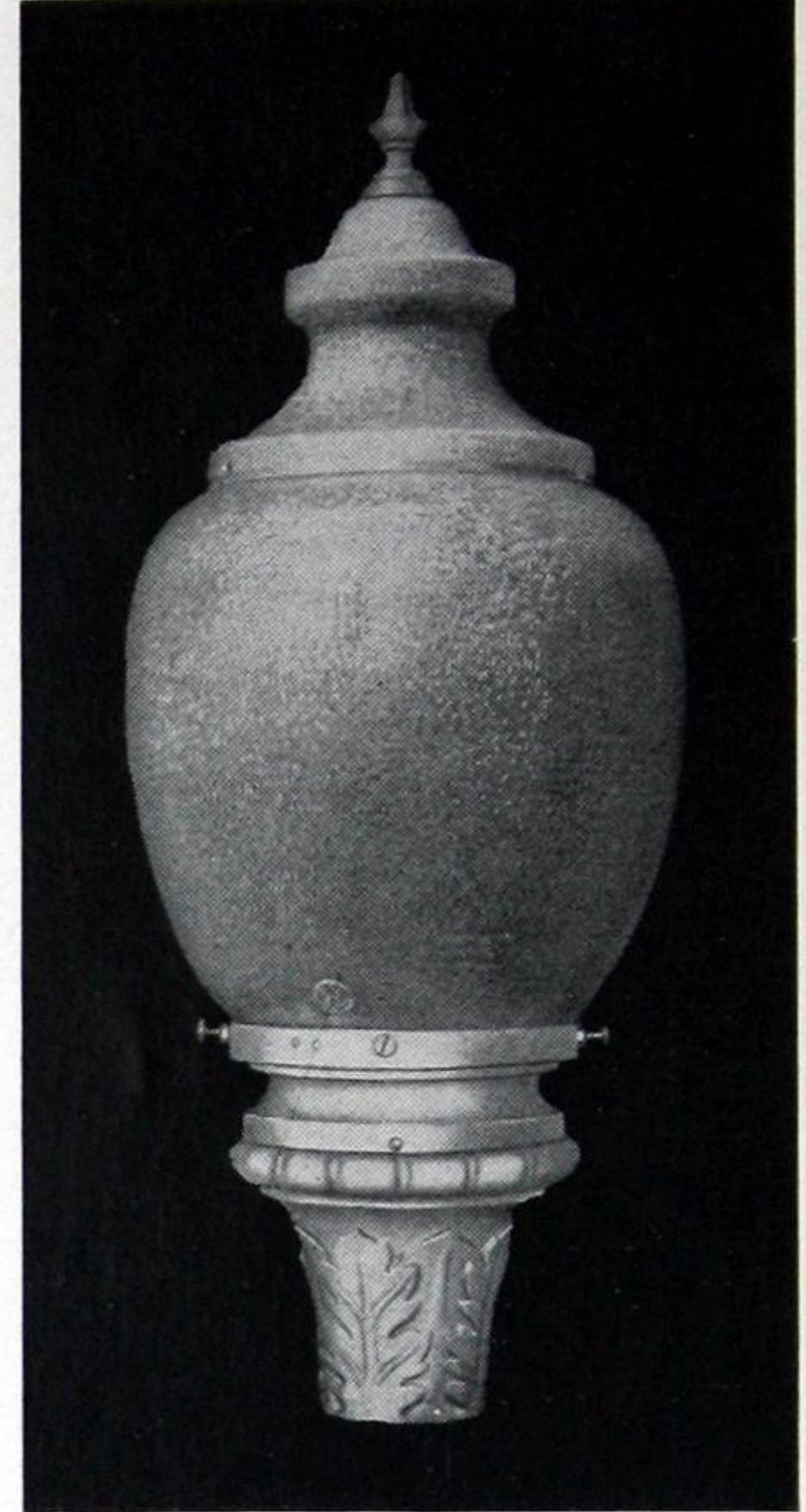


Fig. 3
(Photo No. 472676)
Form 12 with No. 118 globe,
No. 1118 canopy, and Type
N casing

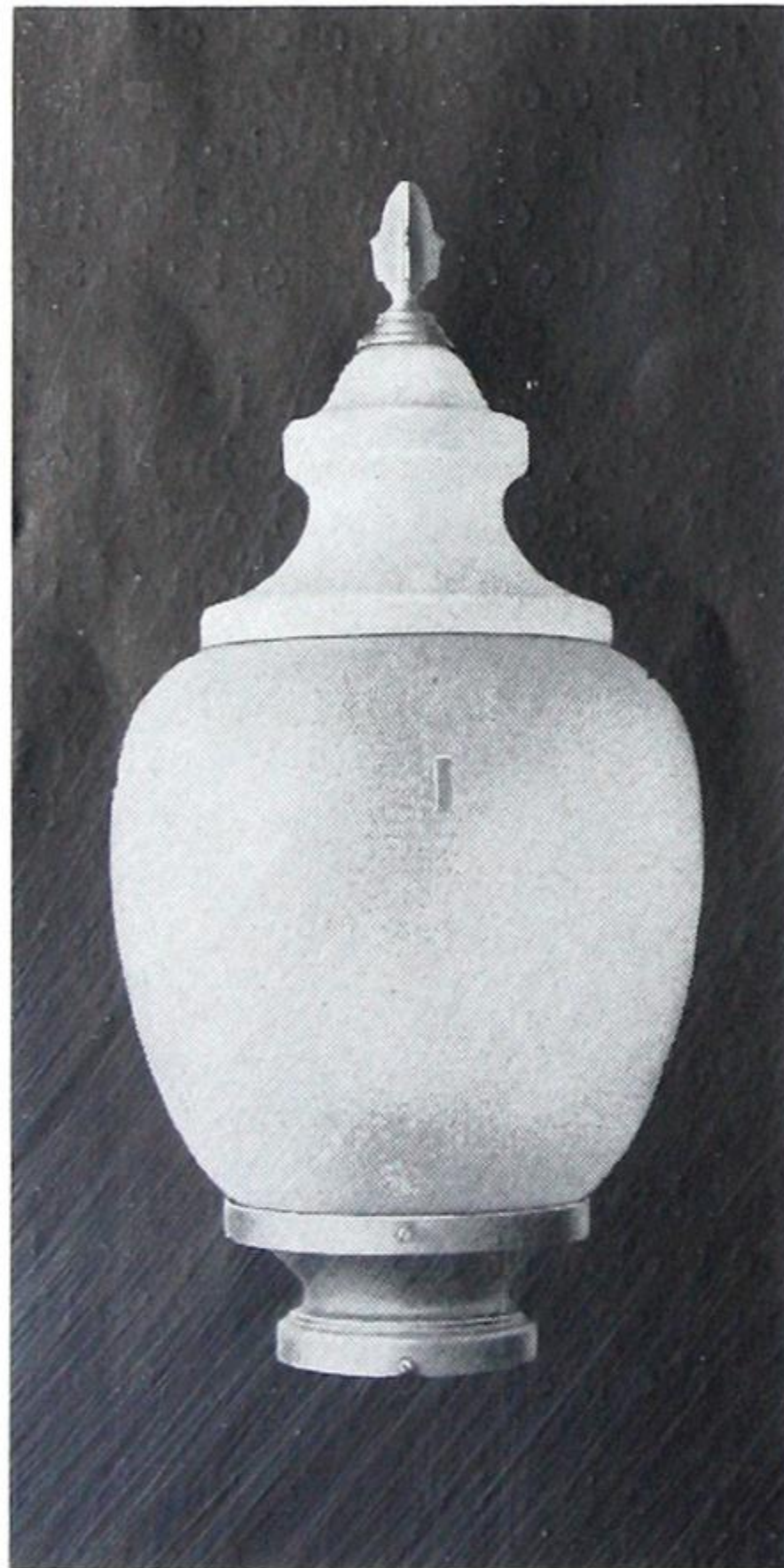


Fig. 4
(Photo No. 716475)
Form 33 with No. 118 globe
and No. 1118 casing

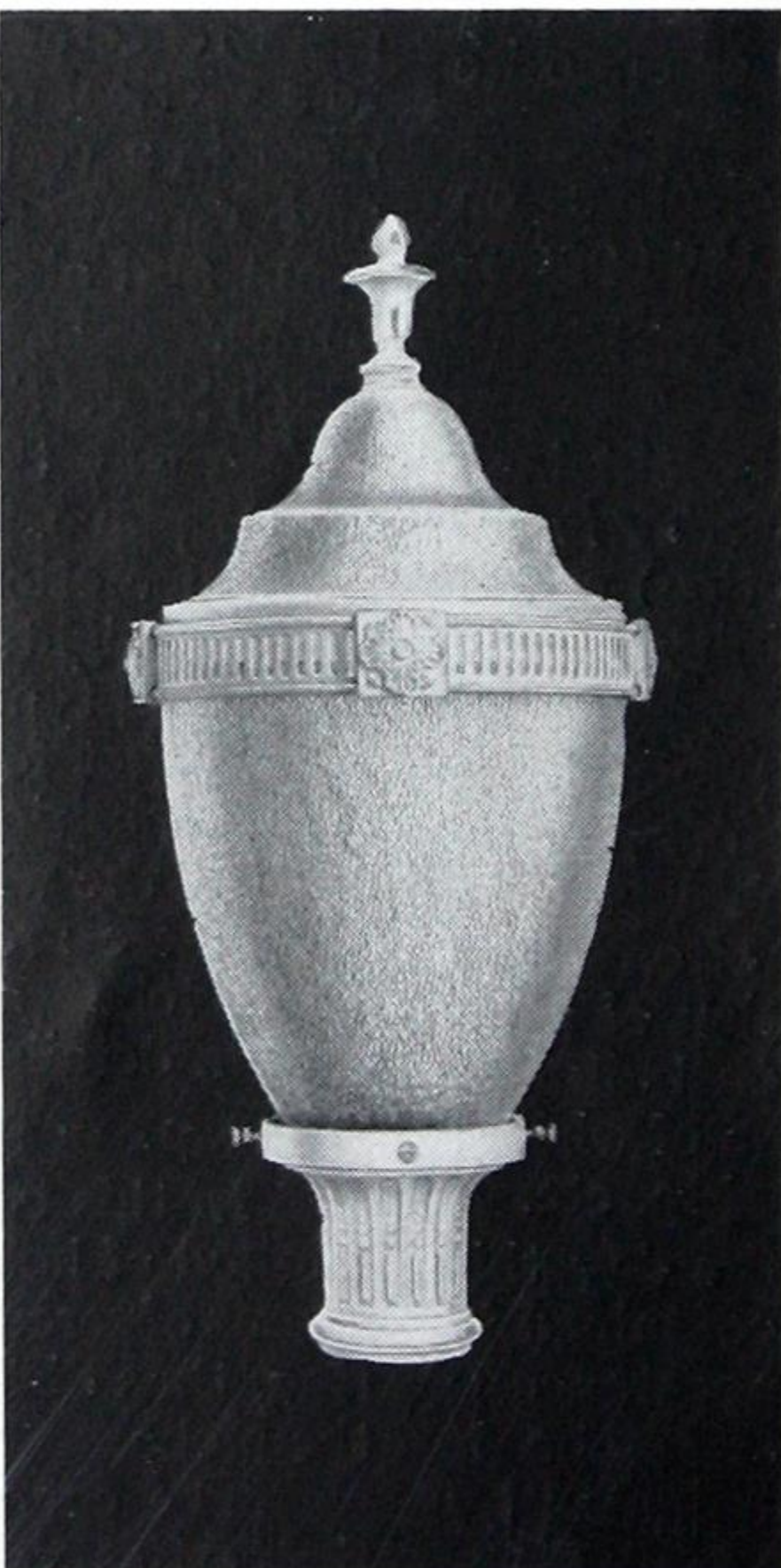


Fig. 5
(Photo No. 271348)
Form 8 with No. 123 globe,
No. 1123 canopy, and Type
2K casing



Fig. 6
(Photo No. 219991)
Form 9 with No. 107 globe,
No. 1107 canopy, and Type
E casing

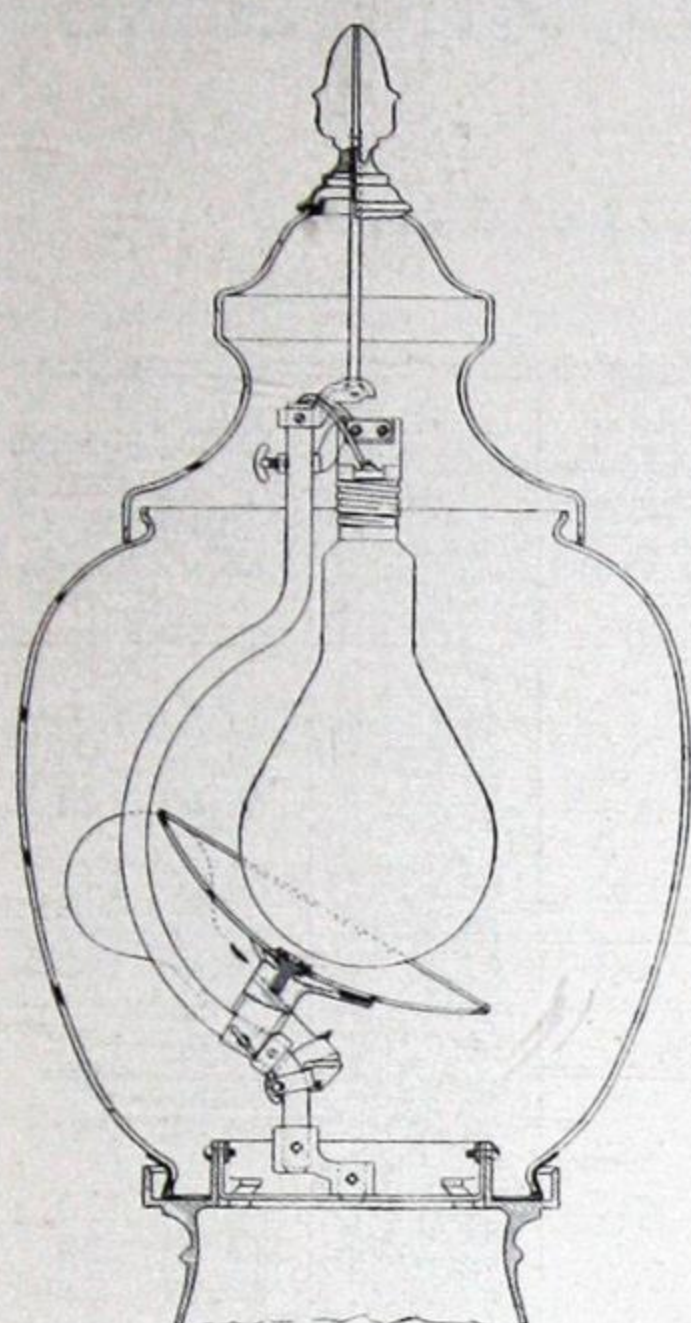


Fig. 7

(Photo No. 718480)
Luminaire with No. 118 globe and No. 1118 canopy, arranged to direct floodlighting beam above horizontal, showing auxiliary socket and lamp in place

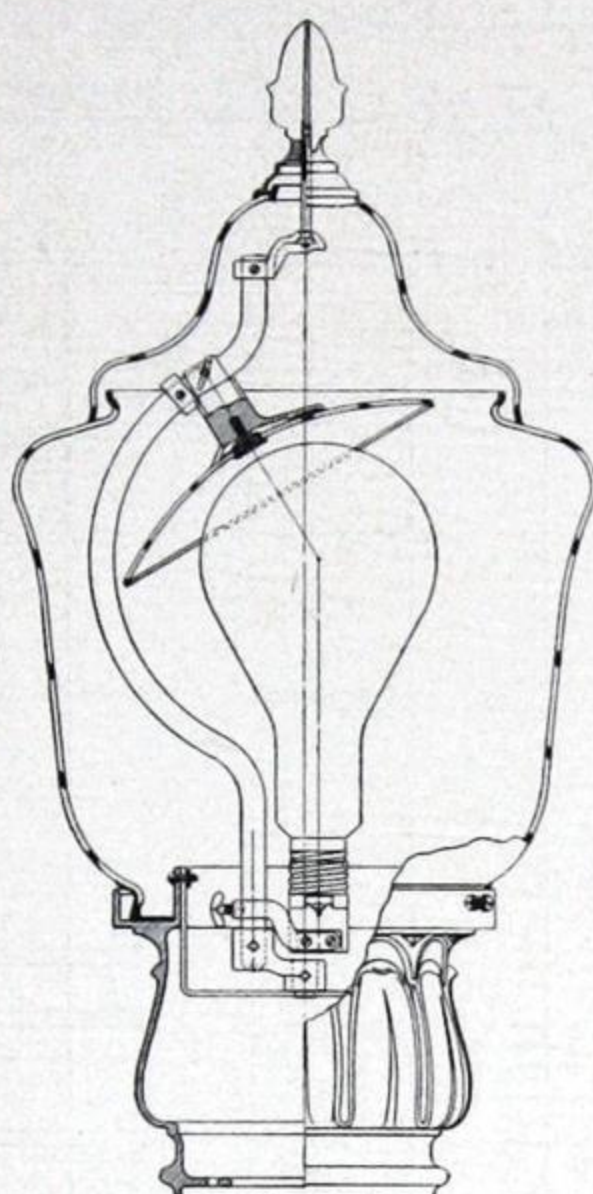


Fig. 8

(Photo No. 718284)
Luminaire with No. 107 globe and No. 1107 canopy, arranged to direct floodlighting beam below horizontal

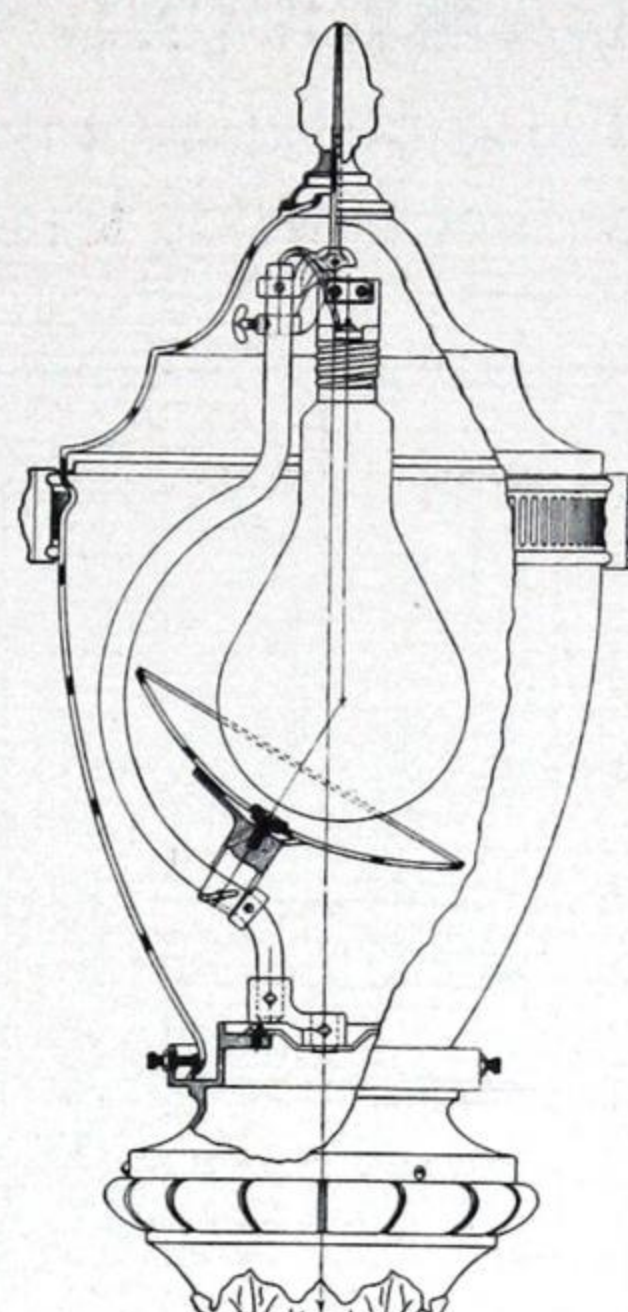


Fig. 9

(Photo No. 718288)
Luminaire with No. 123 globe and No. 1123 canopy, arranged to direct floodlighting beam above horizontal

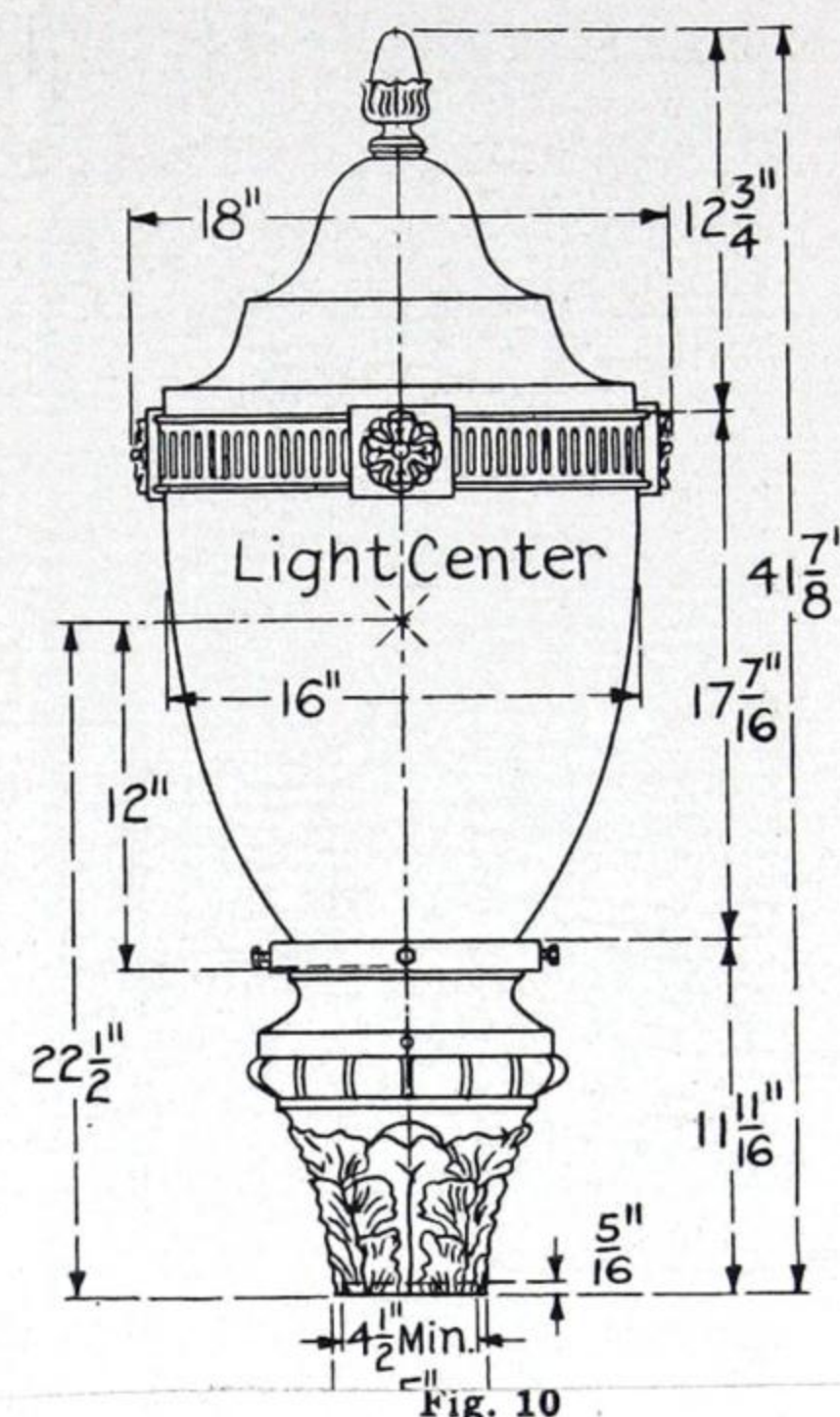


Fig. 10

(Photo No. 218479)
Large lantern luminaire, arranged to direct floodlighting beam below horizontal, showing auxiliary socket and lamp in place

DESCRIPTION AND OPERATION (Cont.)

LANTERN TYPE

The lantern-type ornamental fixture has a frame of cast aluminum, which is hinged so that one-half of the lantern can be opened. This makes the interior of the lantern easily accessible for cleaning, relamping, or adjusting the reflector.

The large sizes of lanterns are equipped with three clear heat-resisting side panels and three clear heat-resisting canopy panels on the building side, and five granite opalescent side panels and five granite opalescent canopy panels on the street side.

LAMPS

For the main floodlighting beam in the large-globe luminaire, lamps from 300 to 1000 watts can be used. In the lantern type, lamps of from 300 to 1500 watts can be used. In either type, provision may be made for an auxiliary lamp up to 200 watts in order to give the unit a balanced and uniform appearance. Multiple lamps are recommended because of the limited space in the fixture and of the insulation required for series lamps.

SPACING

The recommended spacing of this luminaire is 20 to 40 ft. between units, depending on the distance from the standard to the building to be lighted. The mounting height should be 15 to 20 ft., depending on the height of the building.

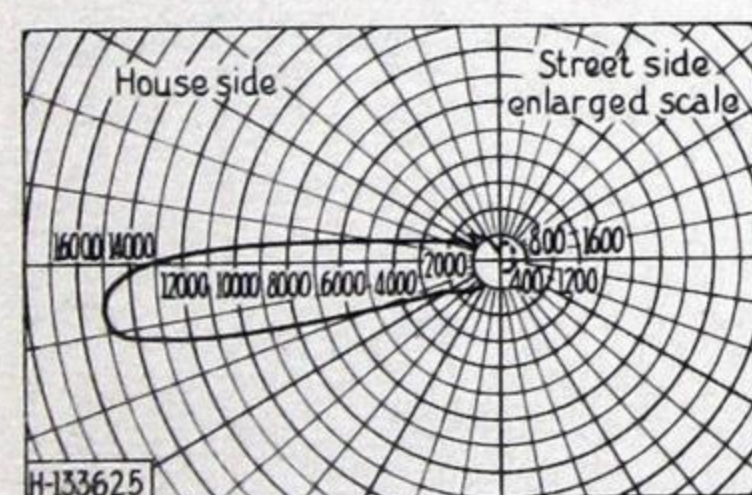


Fig. 11

Distribution of initial candlepower in vertical plane through axis or beam

Typical distribution curve
Form 38 lantern luminaire
with 1000-watt multiple lamp.
Beam directed 5 degrees
below horizontal

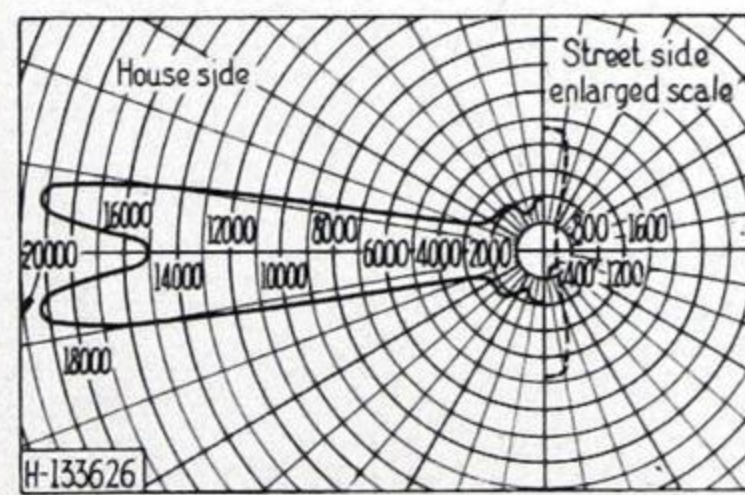


Fig. 12

Distribution of initial candlepower in the 85-degree cone

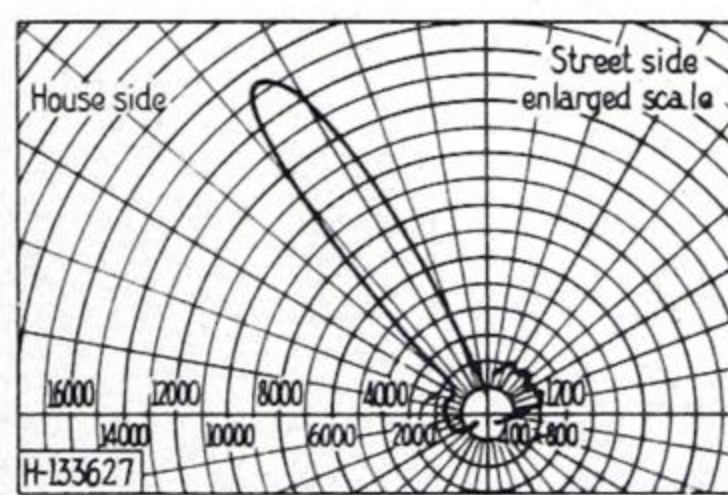


Fig. 13

Distribution of initial candlepower in vertical plane through axis or beam

Typical distribution curve
Form 38 lantern luminaire
with 1000-watt multiple lamp.
Beam directed 55 degrees
above horizontal

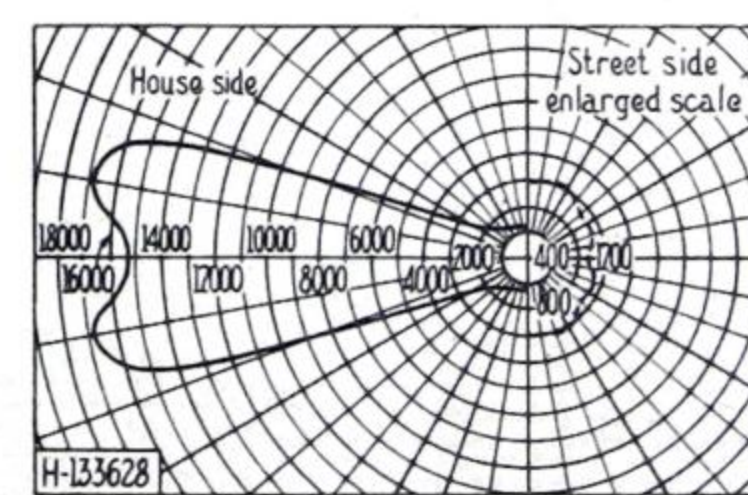
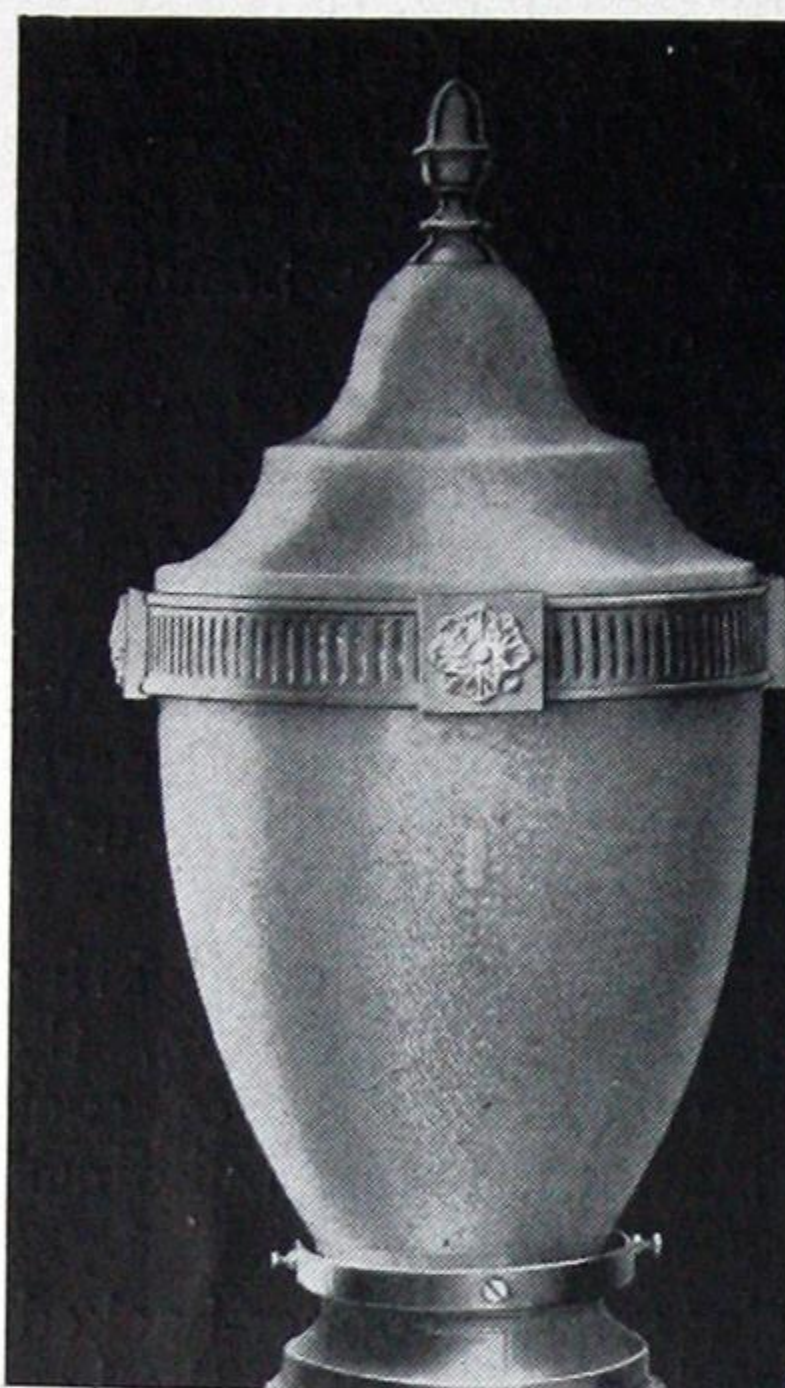


Fig. 14

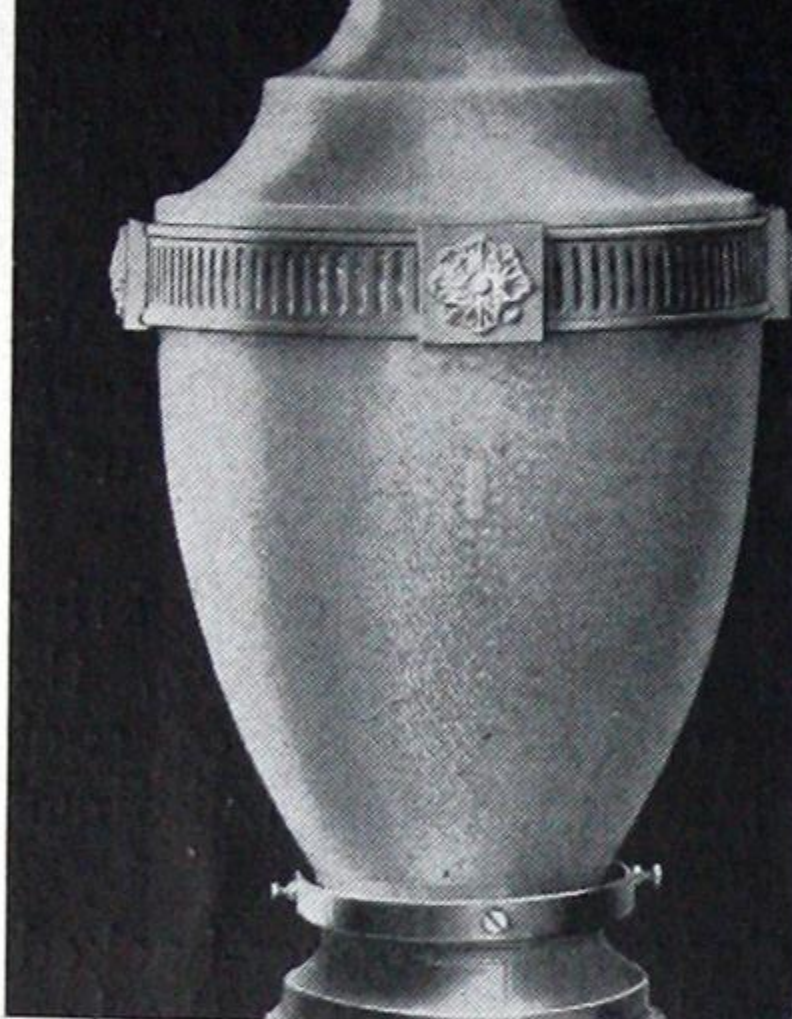
Distribution of initial candlepower in the 145-degree zone



ORNAMENTAL FLOODLIGHTING LUMINAIRES

Universal Directional Adjustment of Floodlighting Beams

EQUIPPED WITH MEDIUM ALABASTER RIPPLED GLASSWARE

					ING TS	† CAT. NO. of Complete Unit	LIST PRICE Class H	APPRX. SHIP. WT. in Lb.	TYPE	CAS- ING	GLOBE	CANOPY	LAMP RATING IN WATTS		† CAT. NO. of Complete Unit	LIST PRICE Class H	APPRX. SHIP. WT. in Lb.	
					Auxiliary	Main	Auxiliary											
Form 12	N N M M O O N N M M N N	161	1118	1000	200	46X223	\$33.20	75	Form 18B Large Lantern	R R RK RW RW	Granite Opalescent Pressed-glass Canopy and Side Panels	500	...	46X303	\$47.00	140		
		107	1107	500	150	46X227	34.20	75				500	150	46X306	48.00	140		
		107	1107	500	...	46X224	33.20	75				500	...	46X304	47.00	140		
		127	1127	500	150	46X228	34.20	75				500	150	46X307	48.00	140		
		123	1123	750	...	46X221	38.00	75				500	...	46X305	47.00	140		
		123	1123	750	150	46X225	39.00	75				500	150	46X308	48.00	140		
	Form 13	12K 12K 13 13	127	1127	500	...	46X222	38.00	75	Form 27	21K	107	1107	500	...	46X257	33.00	100
			127	1127	500	150	46X226	39.00	75			107	1107	500	150	46X260	34.00	100
			127	1127	500	...	46X229	34.40	80			118	1118	1000	...	46X258	38.50	100
			127	1127	500	150	46X232	35.40	80			118	1118	1000	200	46X261	39.50	100
			127	1127	500	...	46X230	39.90	90			161	1118	1000	...	46X259	39.10	95
			127	1127	500	150	46X233	40.90	90			161	1118	1000	200	46X262	40.10	95
Form 16		Q	107	1107	500	...	46X231	40.50	90	Form 33	47 62 62 64 64 62 62 47 47 62 62	127	1127	500	...	46X264	28.85	95
			107	1107	500	150	46X234	41.50	90			127	1127	500	150	46X272	29.85	95
			118	1118	1000	...	46X237	33.00	100			107	1107	500	...	46X265	28.65	95
			107	1107	500	150	46X243	34.00	100			107	1107	500	150	46X273	29.65	95
			118	1118	1000	...	46X236	33.20	100			123	1123	750	...	46X268	35.40	95
			118	1118	1000	200	46X242	34.20	100			123	1123	750	150	46X276	36.40	95
	SK SK	Granite Opalescent Pressed-glass Canopy and Side Panels	500	...	46X240	38.00	100	Form 33A Small Lantern	59 59	118	1118	1000	...	46X266	34.15	95		
		500	150	46X246	39.00	100	118			1118	1000	200	46X274	35.15	95			
		1000	...	46X238	38.50	100	124			1124	1000	...	46X263	42.90	100			
		1000	200	46X244	39.50	100	124			1124	1000	200	46X271	43.90	100			
		1000	...	46X241	48.30	105	161			1118	1000	...	46X267	34.75	100			
		1000	200	46X239	39.10	95	161			1118	1000	200	46X275	35.75	100			
Form 18A Small Lantern	SK SK	46X245	40.10	95	Form 33 Large Lantern	60 60	Granite Opalescent Pressed-glass Canopy and Side Panels	500	150	46X269	43.50	110						
		46X247	33.20	100						46X277	44.50	110						
		46X249	34.20	100														
		46X248	33.20	100														
		46X250	34.20	100														
		46X251	33.00	100														
Form 38 Lantern	R R RK RW RW	46X254	34.00	100	Form 38 Large Lantern	R R RK RW RW	Equipped with 5 each Granite Opalescent and 3 each Pyrex Clear Side and Canopy Panels. Ventilator Type.	1500 1500 1500	200 200 200	46X295	65.00	150						
		46X252	38.50	100						46X298	66.00	150						
		46X255	39.50	100						46X296	65.00	150						
		46X253	39.10	100						46X299	66.00	150						
		46X256	40.10	100						46X297	65.00	150						
		*46X301	43.50	105						46X300	66.00	150						

* For downward adjustment of floodlighting beam only.

† (1) For units with cast-aluminum fitter, order similar to above and add \$1.10 to the list price.

(2) For units with cast-bronze fitter, order similar to above and add \$2.15 to the list price.

‡ Cat. No. does not include MAZDA lamps or pole.

Do not deduct "Renewal Part" prices for omission of glassware, from any of the above luminaires. Request quotation.

Prices subject to change without notice.

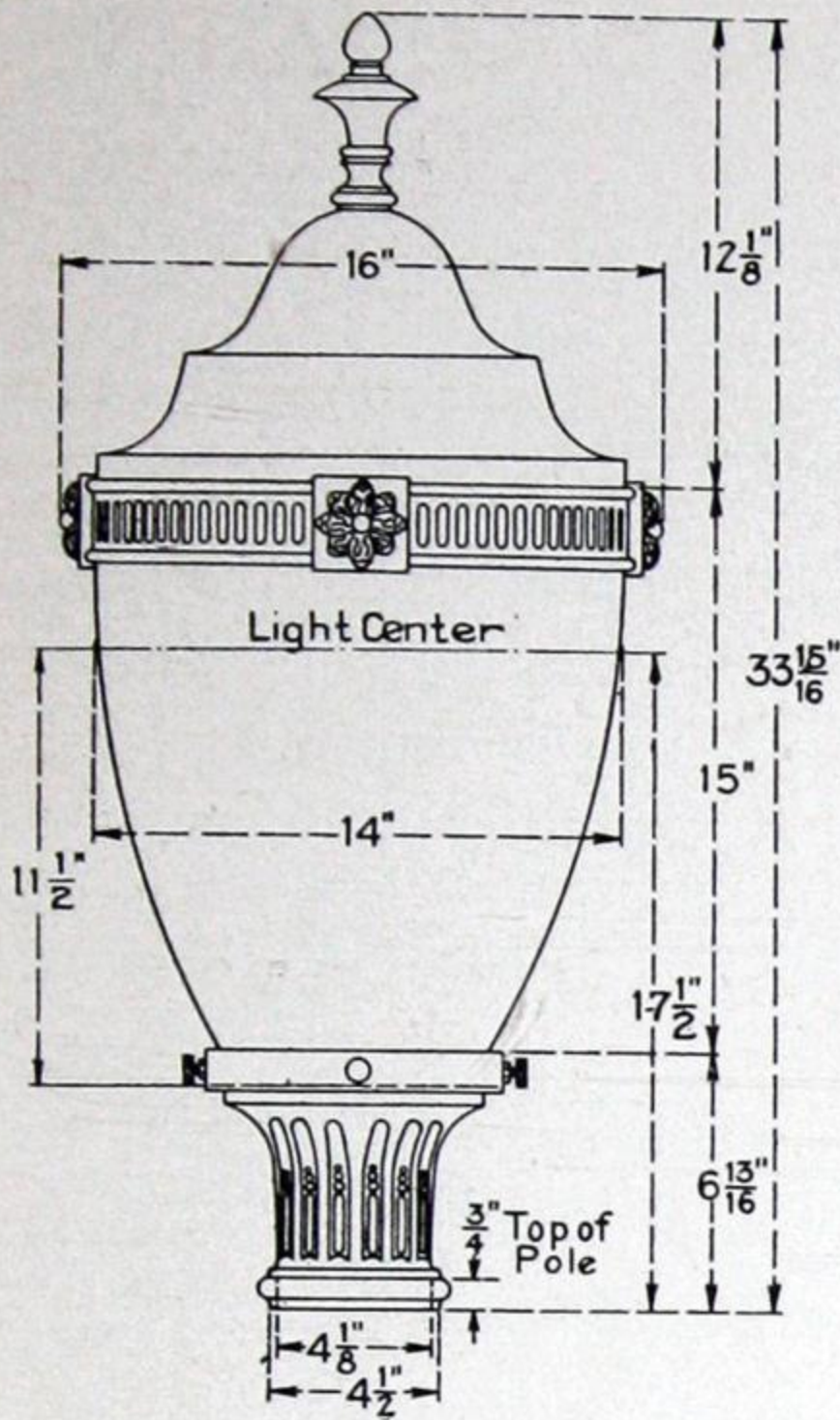


Fig. 15
Form 8 luminaire with No. 123 globe
and No. 123 canopy (see Fig. 19)

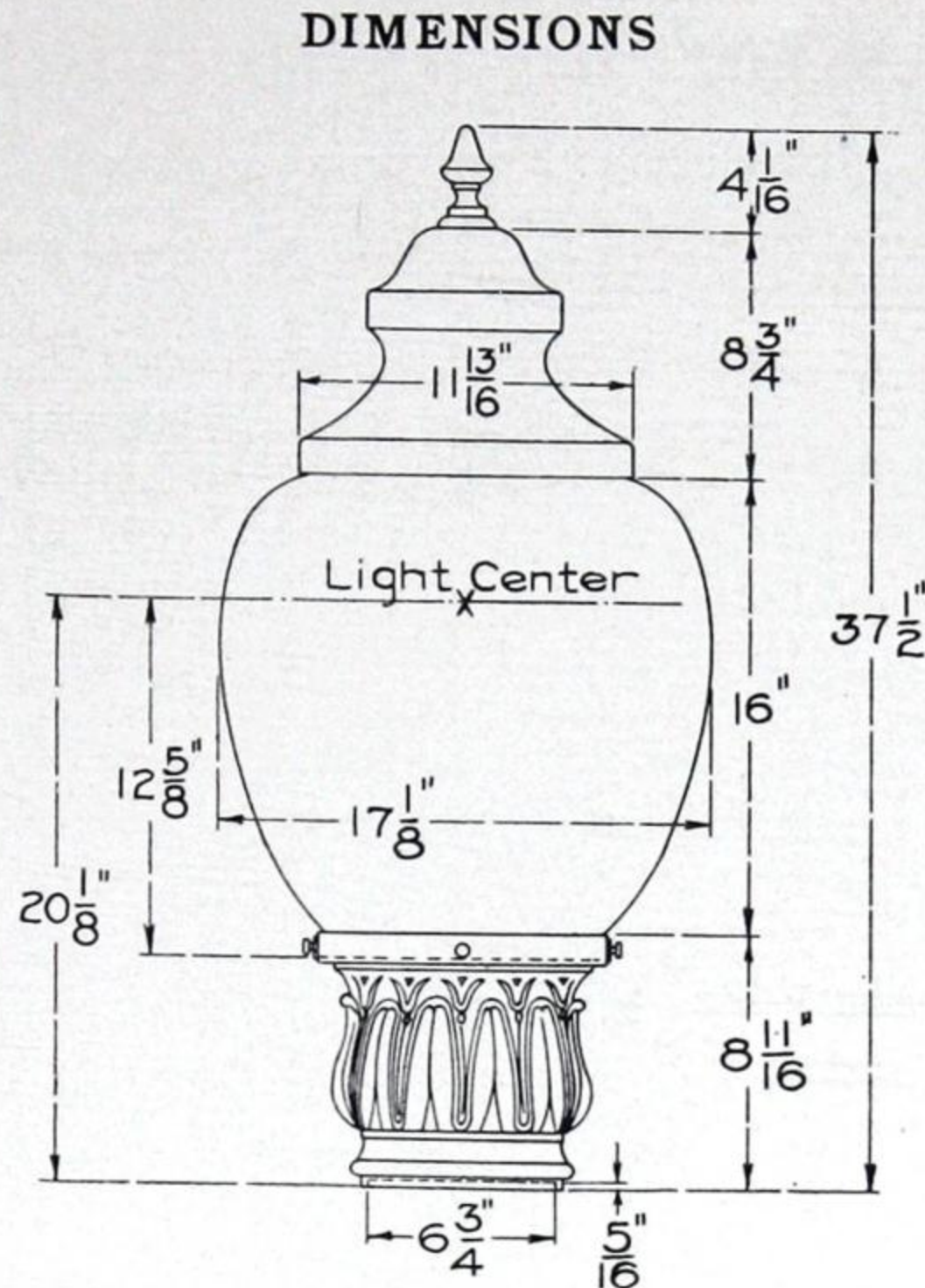


Fig. 16
Form 9 luminaire with No. 118 globe
and No. 1118 canopy

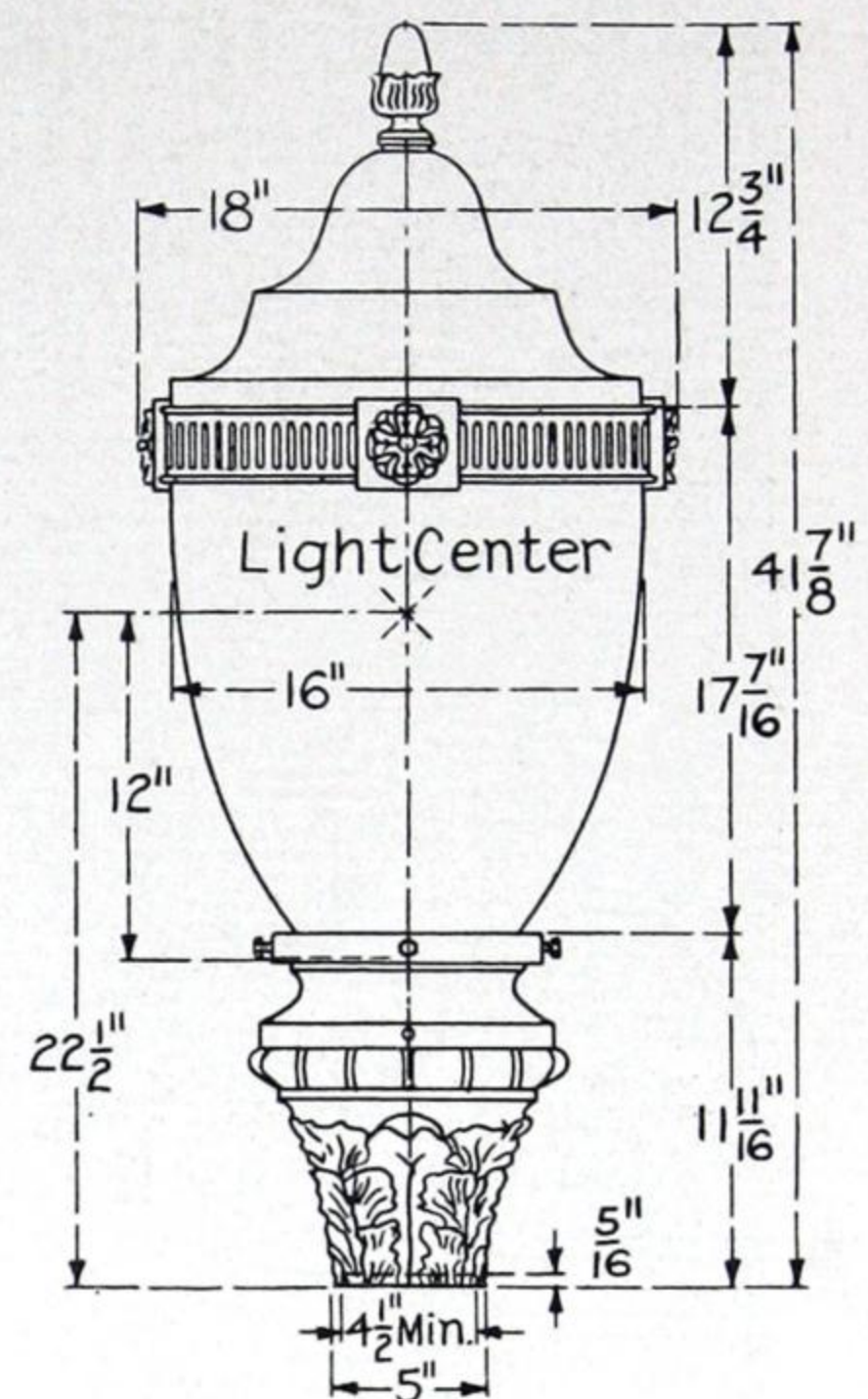


Fig. 17
Form 12 luminaire with No. 124 globe
and No. 1124 canopy

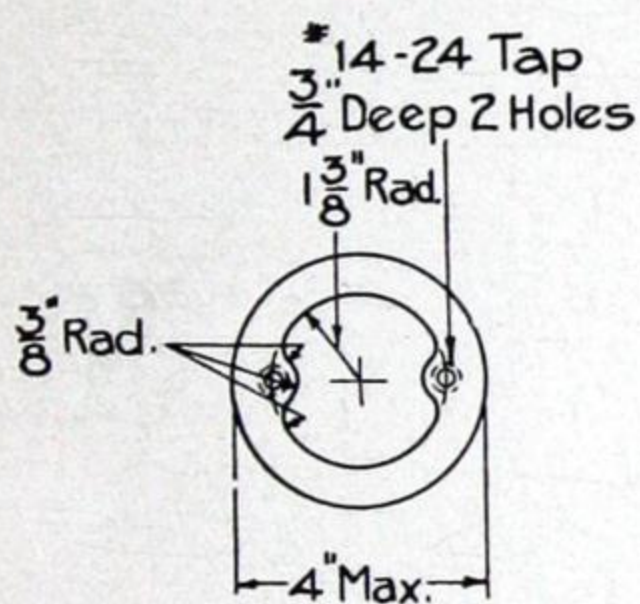


Fig. 18
Pole-type drilling for Type F
and No. 3 casings used with
Form 8 luminaire

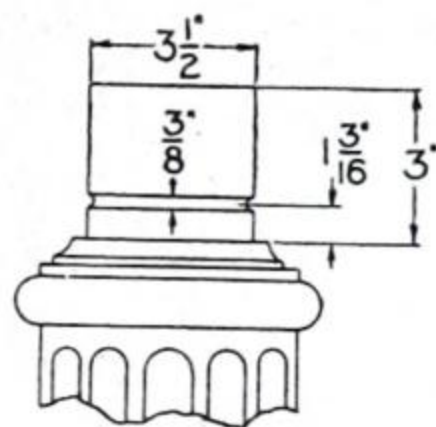


Fig. 19
Pole-top dimensions for
Types K and 2K casings
Form 8 luminaire,
Type 12K casing,
Form 13 luminaire,
Type 21K casing,
Form 27 luminaire,
Types SK and RK casings
Lantern luminaires



Fig. 20
Pole-top drilling for Type E
casing, used with Form 9
luminaire

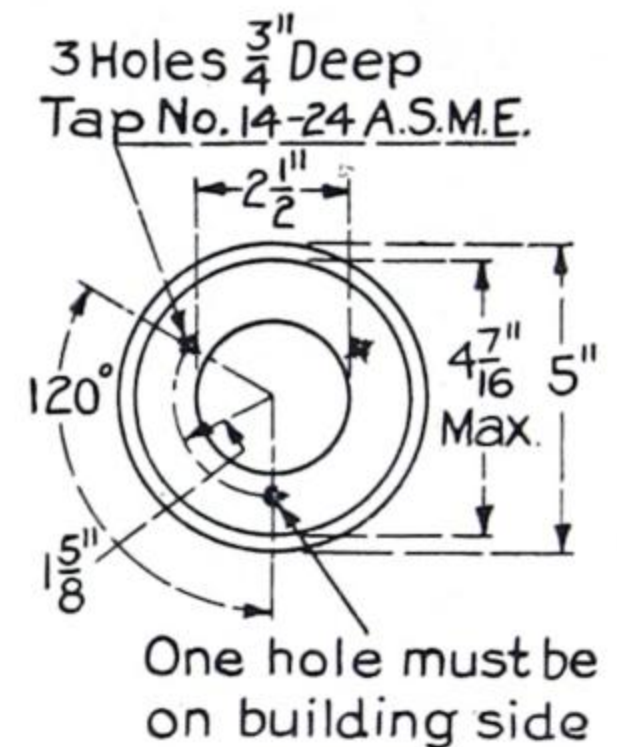


Fig. 21
Pole-top drilling for Types
M, N, and O casings, used
with Form 12 luminaire

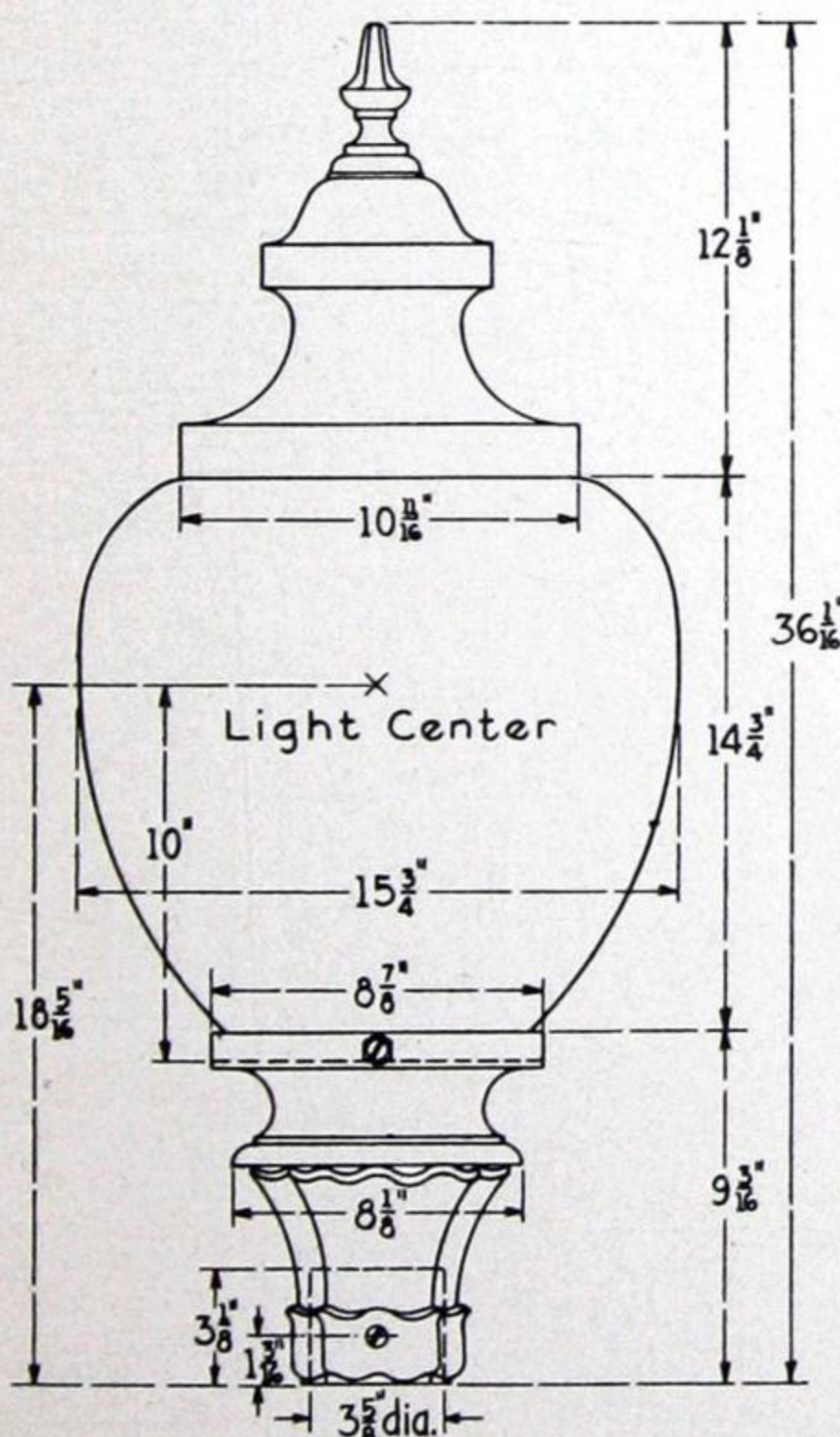


Fig. 22
Form 13 luminaire with No. 127 globe,
and No. 1127 canopy (see Fig. 19)



Fig. 23
Pole-top drilling for No. 13 casing,
used with Form 13 luminaire

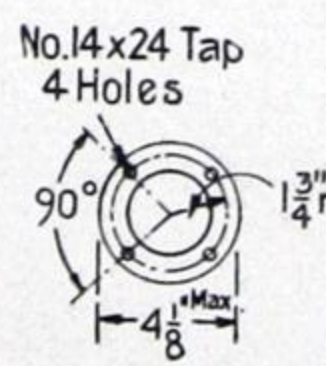


Fig. 24
Pole-top drilling for Type Q casing,
used with Form 16 luminaire

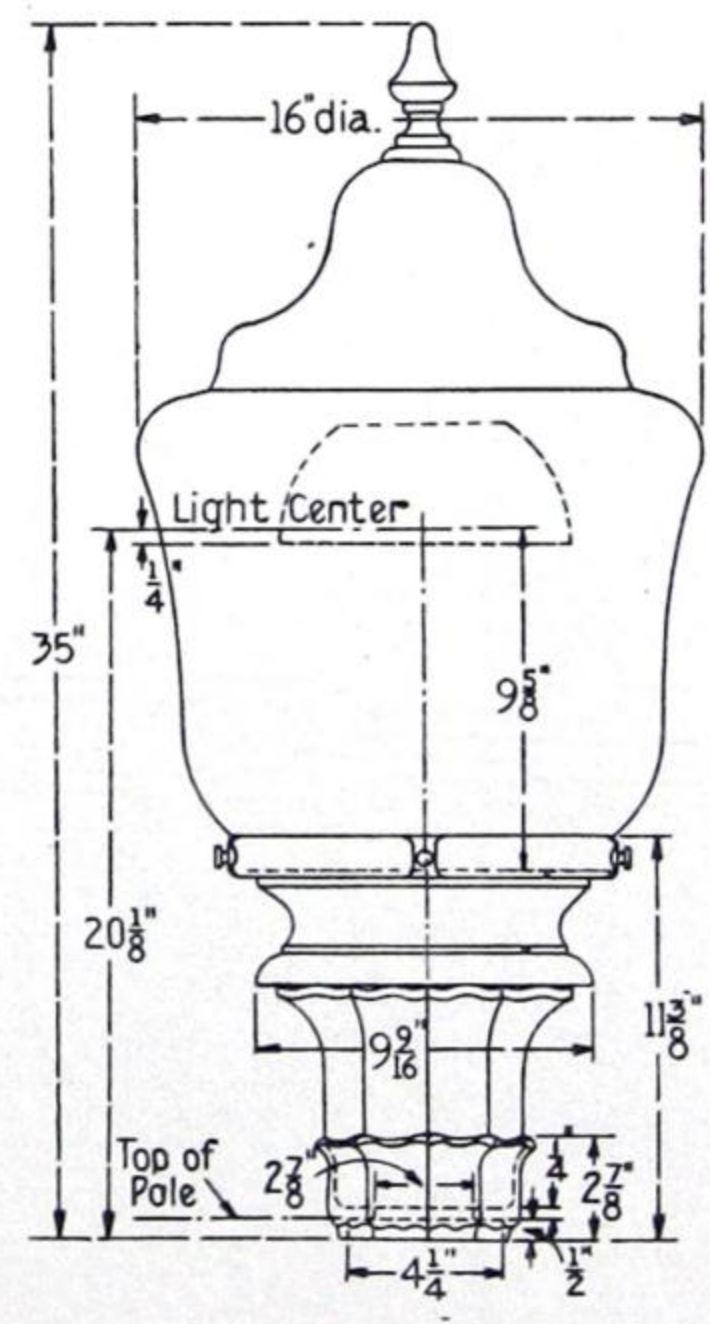


Fig. 25
Form 16 luminaire with No. 107 globe
and No. 1107 canopy

DIMENSIONS (Cont.)

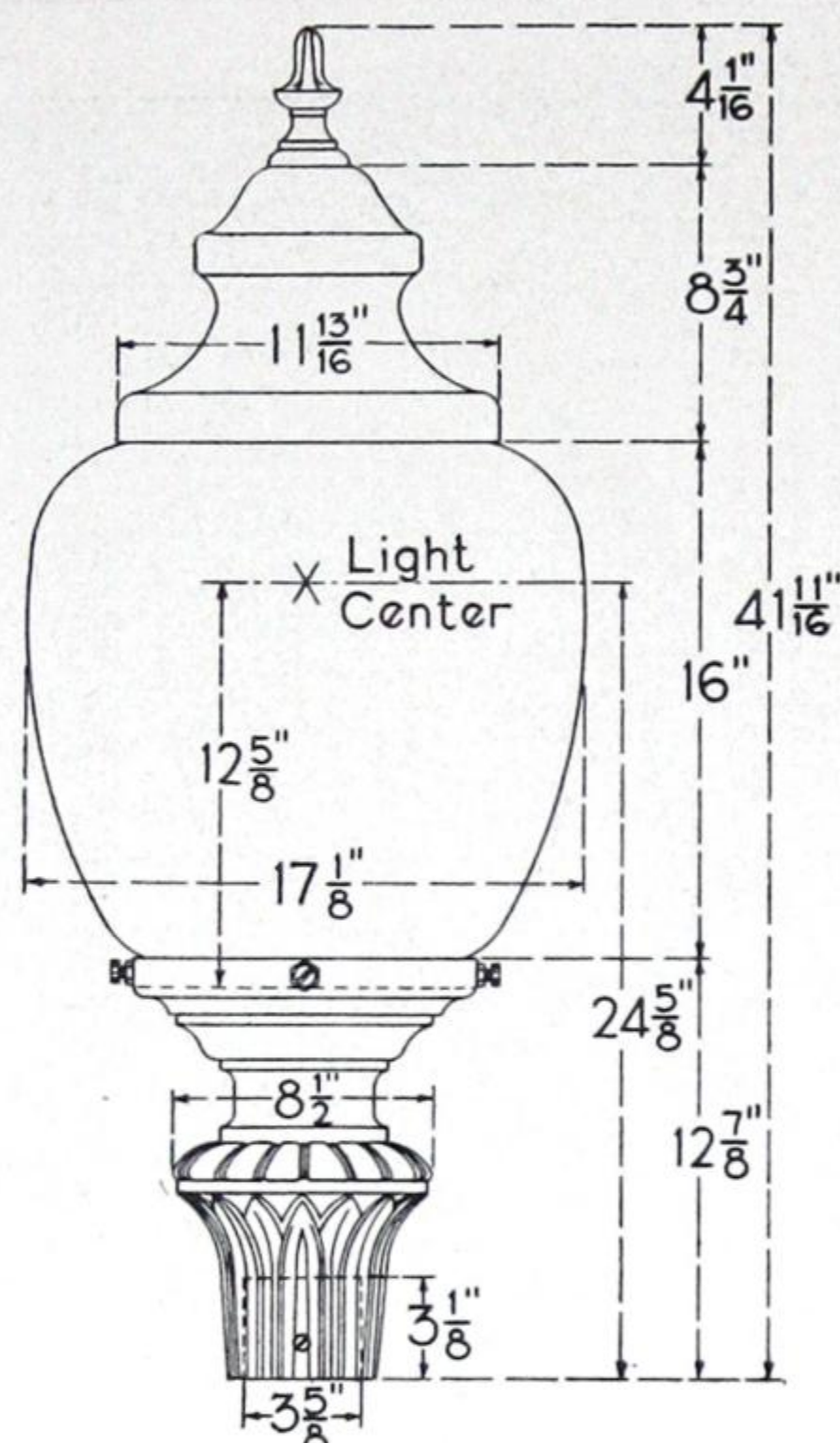


Fig. 26

Form 27 luminaire with No. 118 globe
and No. 1118 canopy (see Fig. 19)

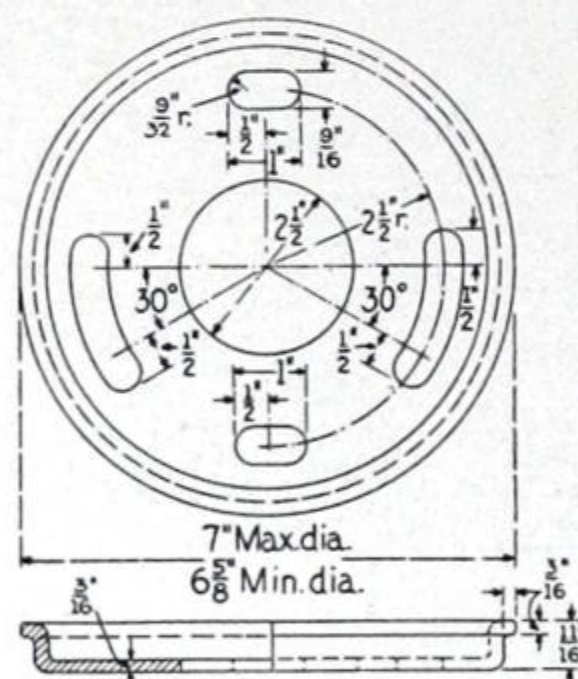


Fig. 27

Pole adapter for Form 33 luminaire

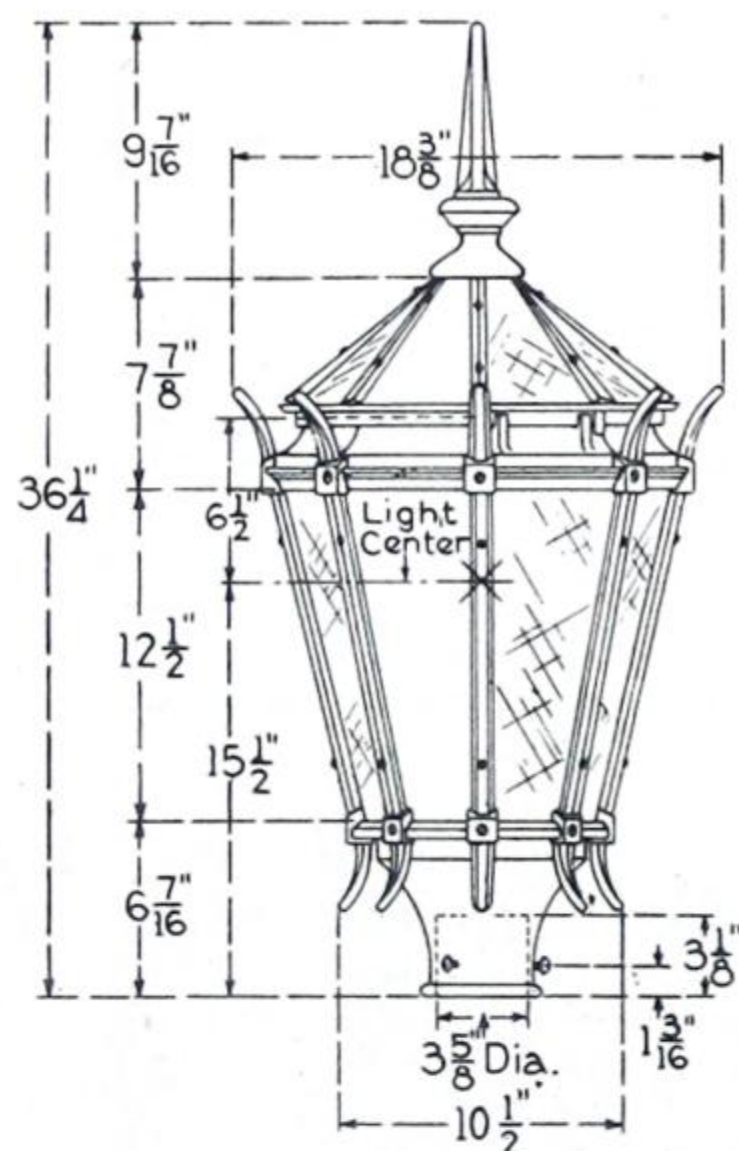


Fig. 29

Form 18-A small lantern luminaire with Type SK casing (see Fig. 19)

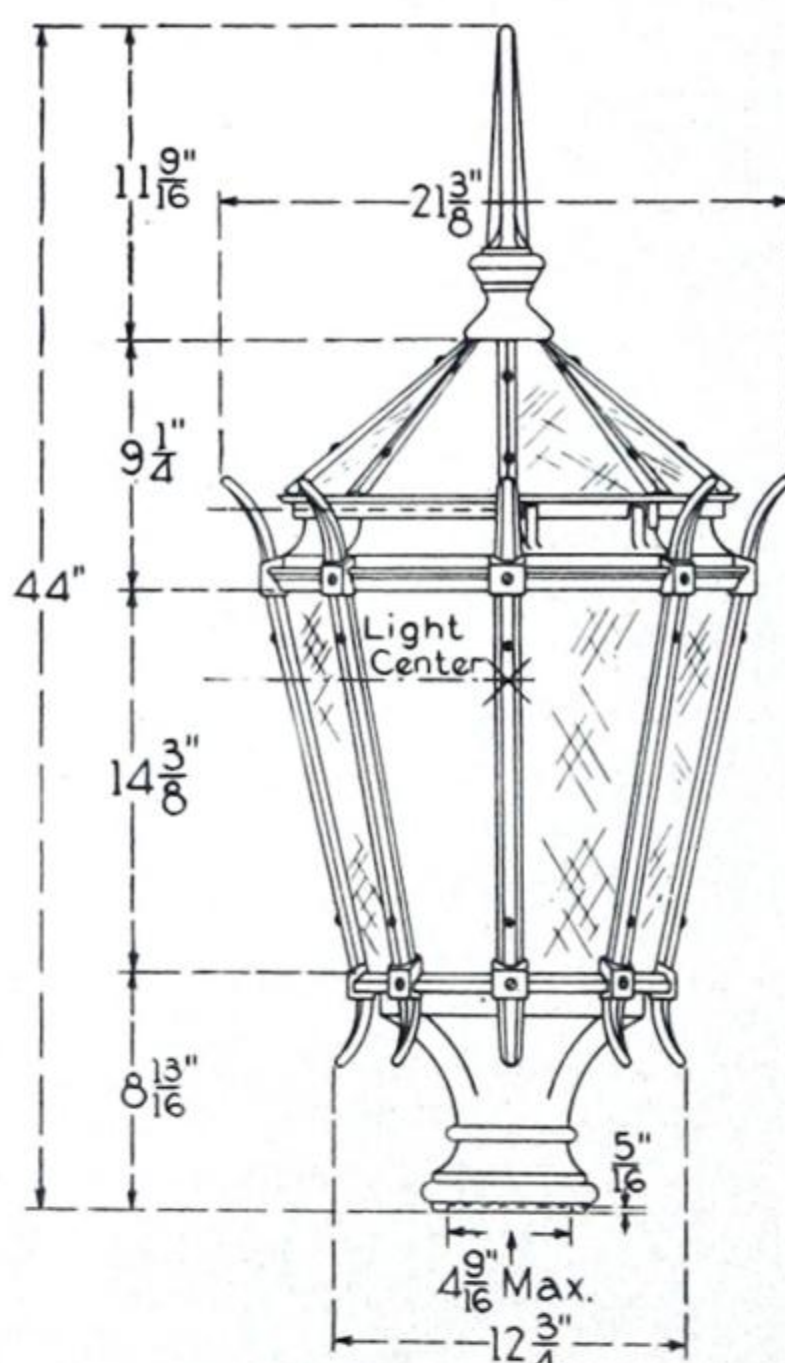


Fig. 30

Form 18-B lantern luminaire
with Type RW casing

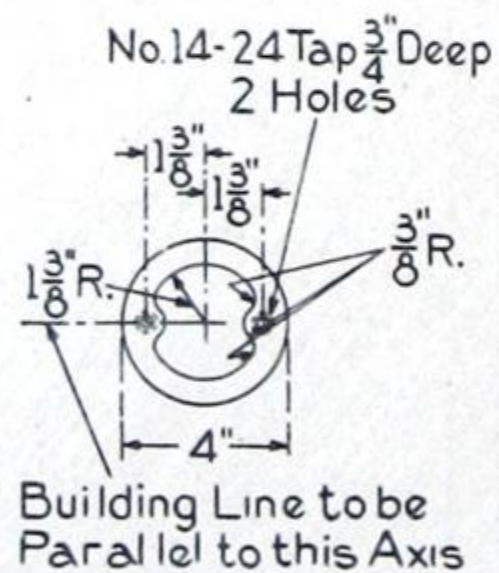


Fig. 32

Pole-top drilling for Type R casing, used with Form 18-B and Form 38 lanterns

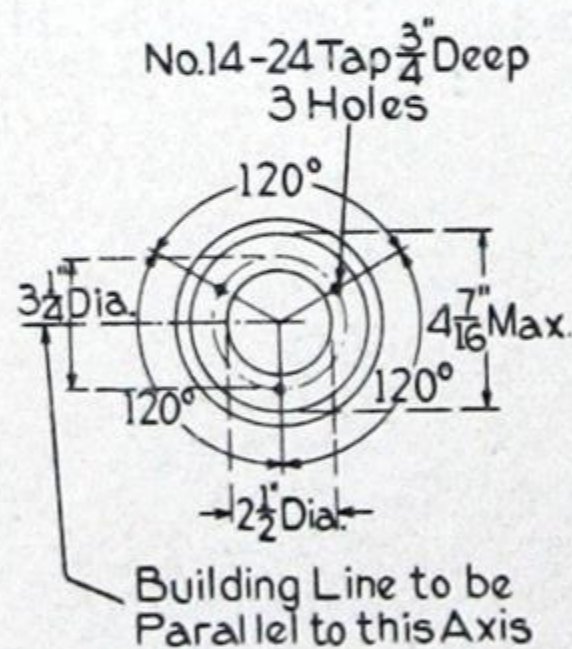


Fig. 33

Pole-top drilling for Type RW casing, used with Form 18-B and Form 38 lanterns

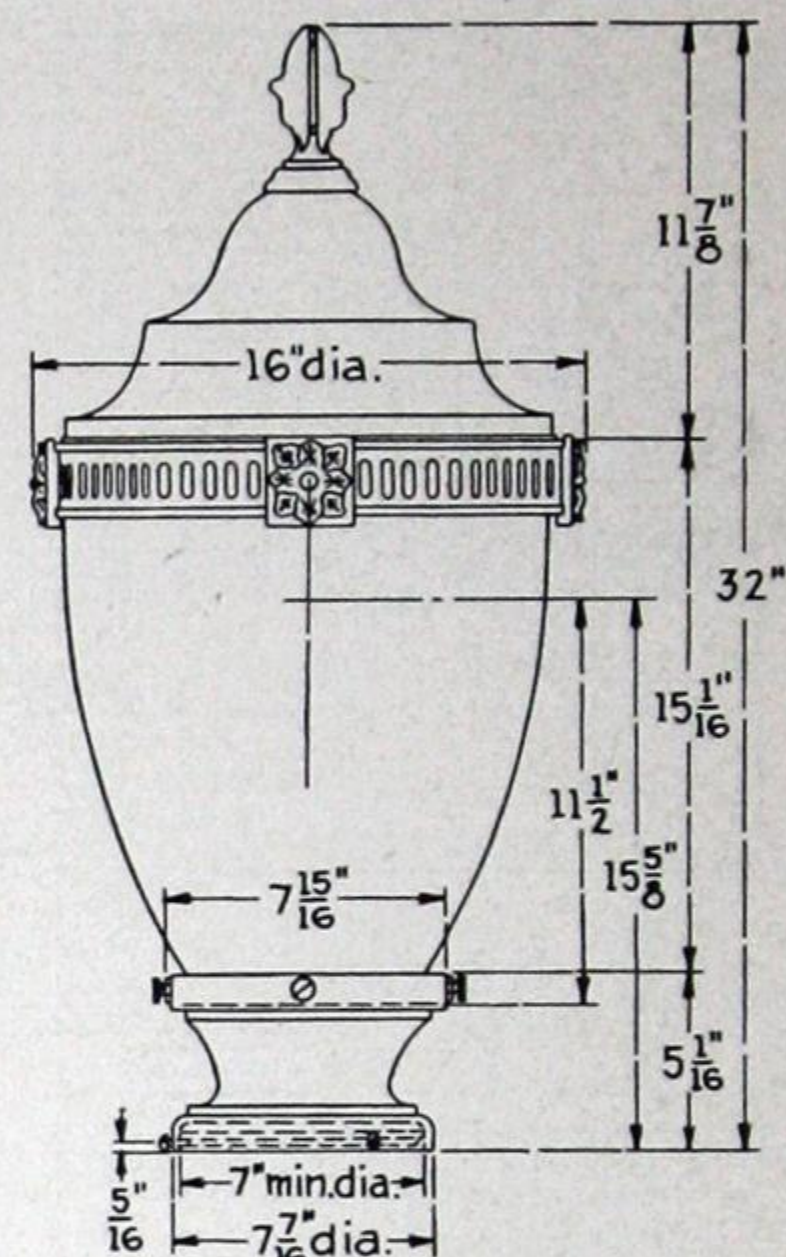


Fig. 28

Form 33 luminaire with No. 123 globe
and No. 1123 canopy

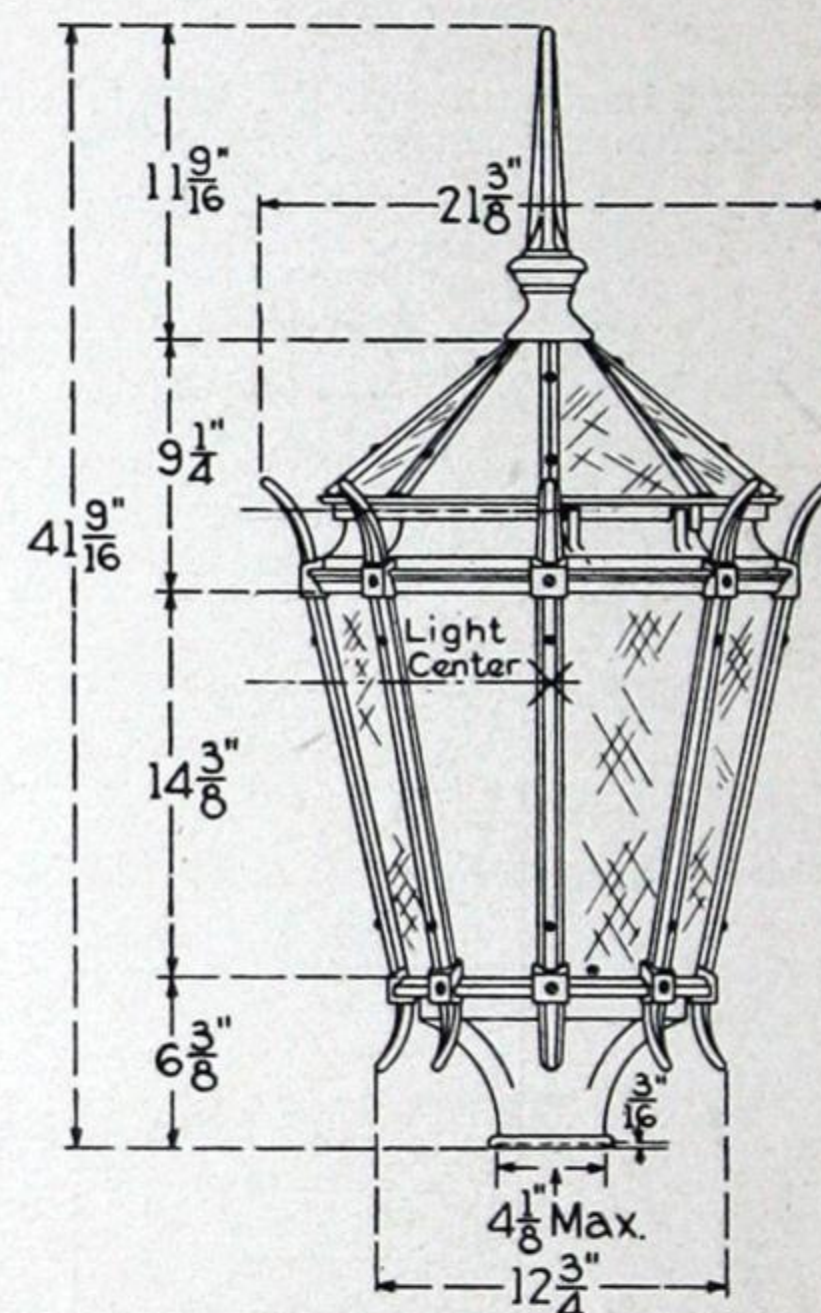


Fig. 31

Form 18-B lantern luminaire
with Type R casing

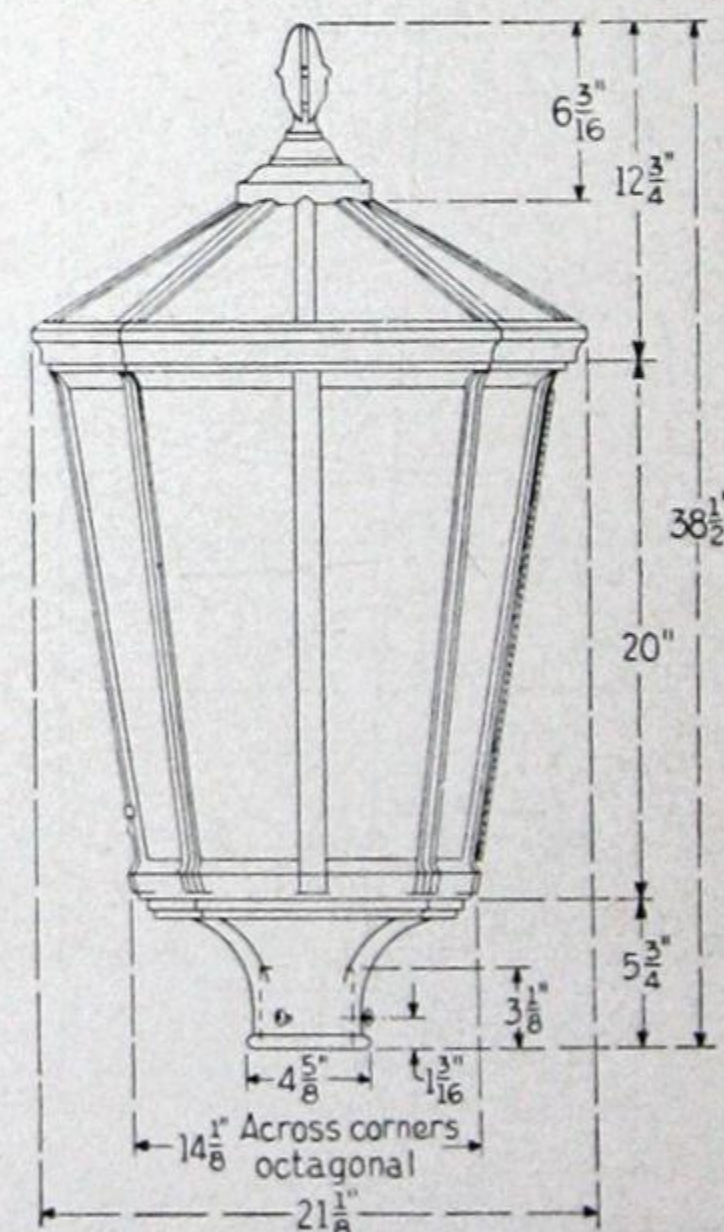


Fig. 34

Form 38 lantern with Type RK casing
(see Fig. 19)



Fig. 35
G-E floodlighting luminaires provide dignified publicity for modern business buildings



Fig. 36
G-E floodlighting luminaires invite customers by night and give distinction by day

GENERAL ELECTRIC COMPANY

Sales Offices—Address Nearest Office

Akron, Ohio.....	106 South Main Street	Milwaukee, Wis.....	940 West St. Paul Avenue
Amarillo, Tex.....	806 South Grant Street	Minneapolis, Minn.....	107 South Fifth Street
Atlanta, Ga.....	187 Spring Street, Northwest	Nashville, Tenn.....	234 Third Avenue, North
Baltimore, Md.....	39 West Lexington Street	Newark, N. J.....	744 Broad Street
Beaumont, Tex.....	398 Pearl Street	New Haven, Conn.....	129 Church Street
Binghamton, N. Y.....	19 Chenango Street	New Orleans, La.....	837 Gravier Street
Birmingham, Ala.....	2031 First Avenue, North	New York, N. Y.....	120 Broadway
Bluefield, W. Va.....	307 Federal Street	Niagara Falls, N. Y.....	201 Falls Street
Boston, Mass.....	140 Federal Street	Oklahoma City, Okla.....	15 North Robinson Street
Buffalo, N. Y.....	1 West Genesee Street	Omaha, Nebr.....	409 South Seventeenth Street
Butte, Mont.....	20 West Granite Street	Philadelphia, Pa.....	1405 Locust Street
Canton, Ohio.....	700 Tuscarawas Street, West	Phoenix, Ariz.....	11 West Jefferson Street
Charleston, W. Va.....	304 Capitol Street	Pine Bluff, Ark.....	316 West Fifth Avenue
Charlotte, N. C.....	200 South Tryon Street	Pittsburgh, Pa.....	535 Smithfield Street
Chattanooga, Tenn.....	536 Market Street	Portland, Ore.....	329 Alder Street
Chicago, Ill.....	230 South Clark Street	Providence, R. I.....	76 Westminster Street
Cincinnati, Ohio.....	215 West Third Street	Richmond, Va.....	700 East Franklin Street
Cleveland, Ohio.....	925 Euclid Avenue	Roanoke, Va.....	202 South Jefferson Street
Columbus, Ohio.....	17 South High Street	Rochester, N. Y.....	89 East Avenue
Dallas, Tex.....	1801 North Lamar Street	St. Louis, Mo.....	112 North Fourth Street
Davenport, Iowa.....	511 Pershing Avenue	Salt Lake City, Utah.....	200 South Main Street
Dayton, Ohio.....	25 North Main Street	San Antonio, Tex.....	201 Villita Street
Denver, Colo.....	650 Seventeenth Street	San Francisco, Calif.....	235 Montgomery Street
Des Moines, Iowa.....	418 West Sixth Avenue	Schenectady, N. Y.....	1 River Road
Detroit, Mich.....	700 Antoinette Street	Seattle, Wash.....	821 Second Avenue
Duluth, Minn.....	14 West Superior Street	Shreveport, La.....	513 Marshall Street
El Paso, Tex.....	109 North Oregon Street	Spokane, Wash.....	421 Riverside Avenue
Erie, Pa.....	10 East Twelfth Street	Springfield, Ill.....	607 East Adams Street
Fort Wayne, Ind.....	1635 Broadway	Springfield, Mass.....	1387 Main Street
Fort Worth, Tex.....	408 West Seventh Street	Syracuse, N. Y.....	113 South Salina Street
Grand Rapids, Mich.....	148 Monroe Avenue, Northwest	Tacoma, Wash.....	1019 Pacific Avenue
Hartford, Conn.....	18 Asylum Street	Tampa, Fla.....	604 Ella Mae Street
Houston, Tex.....	1016 Walker Avenue	Toledo, Ohio.....	405 Madison Avenue
Indianapolis, Ind.....	110 North Illinois Street	Trenton, N. J.....	143 East State Street
Jackson, Mich.....	212 Michigan Avenue, West	Tulsa, Okla.....	409 South Boston Street
Jacksonville, Fla.....	700 East Union Street	Utica, N. Y.....	258 Genesee Street
Kansas City, Mo.....	1004 Baltimore Avenue	Washington, D. C.....	800 Fifteenth Street, Northwest
Knoxville, Tenn.....	602 South Gay Street	Waterbury, Conn.....	195 Grand Street
Los Angeles, Calif.....	5201 Santa Fe Avenue	Wheeling, W. Va.....	40 Fourteenth Street
Louisville, Ky.....	455 South Fourth Street	Worcester, Mass.....	340 Main Street
Memphis, Tenn.....	8 North Third Street	Youngstown, Ohio.....	16 Central Square
Miami, Fla.....	120 Northeast Twentieth Street		

Canada: Canadian General Electric Company, Ltd., Toronto

Motor Dealers and Lamp Agencies in all large cities and towns

Hawaii: W. A. Ramsay, Ltd., Honolulu

SERVICE SHOPS

Atlanta, Ga.....	496 Glenn Street, Southwest	Milwaukee, Wis.....	940 West St. Paul Avenue
Buffalo, N. Y.....	318 Urban Street	Minneapolis, Minn.....	410 Third Avenue, North
Chicago, Ill.....	509 East Illinois Street	New York, N. Y.....	416 West Thirteenth Street
Cincinnati, Ohio.....	215 West Third Street	Philadelphia, Pa.....	429 North Seventh Street
Cleveland, Ohio.....	4966 Woodland Avenue	Pittsburgh, Pa.....	16 Terminal Way
Dallas, Tex.....	1801 North Lamar Street	St. Louis, Mo.....	1009 Spruce Street
Detroit, Mich.....	700 Antoinette Street	Salt Lake City, Utah.....	360 West Second South Street
Houston, Tex.....	5 North Milam Street	San Francisco, Calif.....	340 First Street
Kansas City, Mo.....	819 East Nineteenth Street	Seattle, Wash.....	1508 Fourth Avenue, South
Los Angeles, Calif.....	5203 Santa Fe Avenue		

Special service divisions are also maintained at the following works of the Company: Erie, Pa.; Ft. Wayne, Ind.; Pittsfield, Mass.; Schenectady, N. Y.; and West Lynn, Mass.—River Works and West Lynn Works.

BROADCASTING STATIONS

WGY, Schenectady, N. Y.

KOA, Denver, Colorado

KGO, Oakland, Calif.

Short-wave stations: W2XAD—Schenectady W2XAF—Schenectady

INTERNATIONAL GENERAL ELECTRIC COMPANY, INC.

Executive Offices: 120 Broadway, New York City

SCHENECTADY, N. Y.

Cable Address: "Ingenetric New York"

FOREIGN OFFICES, ASSOCIATED COMPANIES, AND AGENTS

ARGENTINA: General Electric, S. A., Buenos Aires, Cordoba, Rosario de Santa Fe, Tucuman, and Mendoza	GREECE AND COLONIES: Compagnie Francaise Thomson-Houston, Paris, France
AUSTRALIA: Australian General Electric Company, Ltd., Sydney, Melbourne, Adelaide, Brisbane, Newcastle, Queensland, Rockhampton, Maffra, Colac, Townsville, Albury, and Lismore	HOLLAND: Mijnsen & Co., Amsterdam
BELGIUM AND COLONIES: Societe d'Electricite et de Mecanique (Procedes Thomson-Houston & Carls) Societe Anonyme, Brussels, Belgium	INDIA: International General Electric Company, (India), Ltd., Calcutta, Bombay, Bangalore and Lahore
BRAZIL: General Electric, S.A., Rio de Janeiro, Sao Paulo, Bahia, Porto Alegre, Bello Horizonte, Juiz de Fora, Belem, Curitiba, Santos, and Recife	ITALY AND COLONIES: Compagnia Generale Di Eletticità, Milan
CENTRAL AMERICA: International General Electric Co., Inc., Panama City, Panama; Guatemala City, Guatemala; New Orleans, La.	JAPAN: Shibaura Engineering Works, Tokyo; Tokyo Electric Company, Ltd., Kawasaki, Kanagawa-Ken; International General Electric Co., Inc., Tokyo
CHILE: International Machinery Company, Santiago, Antofagasta and Valparaiso, Nitrate Agencies Ltd., Iquique	JAVA: International General Electric Co., Inc., Soerabaya
CHINA: Andersen, Meyer & Company, Ltd., Shanghai; China General Edison Company, Shanghai	MEXICO: General Electric, S.A., City of Mexico, Guadalajara, Monterrey, Vera Cruz and El Paso, Texas
COLOMBIA: International General Electric, S.A., Barranquilla, Bogota, Medellin and Cali	NEWFOUNDLAND: International General Electric Co., Inc., St. Johns
CUBA: General Electric Company of Cuba, Havana, and Santiago de Cuba	NEW ZEALAND: National Electrical and Engineering Company, Ltd., Auckland, Dunedin, Christchurch and Wellington
ECUADOR: Guayaquil Agencies Co., Guayaquil	PARAGUAY: General Electric, S. A., Buenos Aires, Argentina
EGYPT: British Thomson-Houston Company, Ltd., Cairo	PERU: International Machinery Co., Lima
FRANCE AND COLONIES: Compagnie Francaise Thomson-Houston, Paris; International General Electric Co., Inc., Paris; Compagnie Des Lampes, Paris	PHILIPPINE ISLANDS: Pacific Commercial Company, Manila; International General Electric Co., Inc., Manila
GERMANY: H. B. Peirce, Representative, General Electric Co., Berlin	PORTO RICO: International General Electric Company of Porto Rico, San Juan
GREAT BRITAIN AND IRELAND: International General Electric Co. of New York, Ltd.; British Thomson-Houston Co., Ltd., London, W.C.2; British Thomson-Houston Co., Ltd., Rugby	PORTUGAL AND COLONIES: Sociedade Iberica de Construcões Electricas Lda., Lisbon
	SOUTH AFRICA: South African General Electric Company, Ltd., Johannesburg, Capetown, Durban, and Port Elizabeth
	SPAIN AND COLONIES: Sociedad Iberica de Construcciones Electricas, Madrid, Barcelona, Bilbao, Valladolid, and Sevilla
	SWITZERLAND: Trollet Freres, Geneva
	URUGUAY: International General Electric, S.A., Montevideo
	VENEZUELA: International General Electric, S.A., Caracas and Maracaibo

March, 1932 (3M)

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PENNSYLVANIA POWER & LIGHT COMPANY